

1. (Currently amended) A reinforcement assembly compact, fiber reinforced rod for optical cables comprising:

a compact fiber reinforced rod comprising:

a plurality of elongated fiber members encased in a matrix of a UV cured vinyl ester resin material and, ;and

~~an outer topcoat layer substantially surrounding said matrix, said outer topcoat layer comprised of a thermoplastic hot melt resin of polybutylene terephthalate and polyether glycol copolymer material; and~~

an upjacket substantially surrounding said compact fiber reinforced rod.

2. (Currently amended) The reinforced rod reinforcement assembly of claim 1, wherein said elongated fiber members comprises an E -type glass fiber member.

3. (Currently amended) The reinforced rod reinforcement assembly of claim 1, wherein said elongated fiber members comprises an S -type glass fiber member.

4. (Currently amended) The reinforced rod reinforcement assembly of claim 1, wherein said elongated fiber members are selected from the group consisting of E -type glass fiber members, an S -type glass fiber members, and combinations thereof.

5. (Currently amended) The reinforced rod reinforcement assembly of claim 1, wherein said elongated fiber members are selected from the group consisting of E -type glass fiber members, S -type glass fiber members, high strength synthetic strands of poly(p-phenylene-2,6-benzobisoxazole) fiber members, and combinations thereof.

6. (Previously amended) The reinforced rod reinforcement assembly of claim 1, wherein said UV cured vinyl ester resin material is selected from the group consisting of novolac vinyl ester and 1,6 hexane diol diacrylate copolymer material and novolac vinyl ester and dipropylene glycol diacrylate copolymer material.

7. Canceled

8. Canceled

9 - 22. Canceled

23. (Currently amended) The ~~reinforced rod~~ reinforcement assembly of claim 1, wherein said plurality of fibers comprising comprises:

a plurality of E -type glass roving fibers; and
a plurality of S -type glass roving fibers.

24. (Previously presented) The ~~reinforced rod~~ reinforcement assembly of claim 23, wherein said plurality of fibers further comprises a plurality of high strength synthetic strand members.

25. (Previously presented) The ~~reinforced rod~~ reinforcement assembly of claim 23, wherein said plurality of fibers further comprises a plurality of high strength aramid strands.

26. (Previously presented) The ~~reinforced rod~~ reinforcement assembly of claim 24, wherein said plurality of fibers further comprises a plurality of polyphenylene terephthalate strand members.

27. (Currently amended) The ~~reinforced rod~~ reinforcement assembly of claim 1, wherein said plurality of fibers comprises:

a plurality of E -type glass roving fibers;
a plurality of S -type glass roving fibers; and
a plurality of high strength aramid strands.